

THIR UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Syngenta Seeds, Inc.

I LECCIE, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC ATMENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITIORY AS PROVIDED BY LAW, THE RESET TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SETTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE SURVEYSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

'HAYDEN'

In Testimony Thereof, I have hereunto set my hand and caused the seal of the Hant Unricty Protection Office to be affixed at the City of Washington, D.C. this ninth day of April, in the

Attest:

Bergi

Commissioner Plant Variety Protection Office Saricultural Marketina Service Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and date on all reproductions			Form Approved - OMB No. 0581-0055			
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE			The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.			
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)			Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER		· · · · ·	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VA	RIETY NAME	
Syngenta Seeds, Inc.			CAPCINICATAL WANTE	Hay	den	
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Co.	de, and Country)	5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY	
600 N. Armstrong Place			(208) 322-7272		NUMBER 000053	
Boise, ID 83704			6. FAX (include area code) (208) 327-9319		GDATE	
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asso		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	7	ECEMBER 29, 2005	
Corporation		DE	February 25, 1975	176	Ce. Not (Ci)	
10. NAME AND ADDRESS OF OWNER REPRESE	• •	•	t person listed will receive all papers)	F	FILING AND EXAMINATION FEES:	
Charleen Orthel Syngenta Seeds, Inc. 600 N. Armstrong Pl. PO Box 4188	Kim Br 6338 t Namos	1993 tishway 20-26 ID 83687		ES RECE	DATE 12 29 /05 CERTIFICATION FEE 74.0	
Boise, ID 83711-4188	· · · · · · · · · · · · · · · · · · ·			V E	\$ 768.60	
MH 2/22/07	·			b	DATE 3/06/2007	
11. TELEPHÖNE (Include area gode) (208) 327-7246 208 -465 -8522	12. FAX (Includ	³¹⁹ 208 • 467 - 4559	13. E-MAIL charleen.orthel@syngent	9 / OUT	Kim. Brisgs @ Syngerta. c	
14. CROP KIND (Common Name)	1	AME (Botanical)	18. DOES THE VARIETY CONT.			
Bean, Garden	Fabaceae		YES NO		, ,	
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VARIETY A FIRST GENERATION HYBRI		IP SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER F APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PL			
Phaseolus vulgaris L.	YES	✓No	COMMERICALIZATION.		ALGORATE THE GENERALLY MODIFIED FOR THE	
19. CHECK APPROPRIATE BOX FOR EACH ATTA	ACHMENT SUBMI	TTED			SEED OF THIS VARIETY BE SOLD AS A CLASS	
(Follow instructions on reverse)					83(a) of the Plant Variety Protection Act)	
a. Schibit A. Origin and Breeding History	or the variety				and 22 below) NO (If "no", go to item 23) SEED OF THIS VARIETY BE LIMITED AS TO	
b. Exhibit B. Statement of Distinctness			NUMBER OF CLASSES?			
c.	-				warray E projection C orotters	
d. Exhibit D. Additional Description of the			IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?			
e, Exhibit E. Statement of the Basis of the						
 f. Statement that a Voucher Sample (4,0) will be deposited and maintained in arrepository) 			IF YES NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.			
g. Filing and Examination Fee (\$4,382), n States" (Mail to the Plant Variety Protect		reasurer of the United	☐ FOUNDATION ☐ R	EGISTER	ED CERTIFIED	
States (wai to the Plant Valiety Profes	auon Oince)		I		please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	STED MATERIAL) D OF, TRANSFER	OR A HYBRID PRODUCED RED, OR USED IN THE U.S. OR			NT OF THE VARIETY PROTECTED BY PLANT BREEDER'S RIGHT OR PATENTY?	
✓ YES □ NO			YES / NO			
IF YES, YOU MUST PROVIDE THE DATE OF FOR EACH COUNTRY AND THE CIRCUMSTA			IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
25. The owners declare that a viable sample of bas a tuber propagated variety a tissue culture will be				ccordance	e with such regulations as may be applicable, or for	
entitled to protection under the provisions of Se	ction 42 of the Pla	nt Variety Protection Act.		stinct, unii	form, and stable as required in Section 42, and is	
Owner(s) is (are) informed that false representa	mon herein can jec	pardize protection and result in pena				
	-7		SIGNATURE OF OWNER			
SIGNATURE.OF OWNER	ABC -	İ				
NAME (Pleasy forint or type)	10~		NAME (Please print or type)			
NAME (Please) faint or type) Jess Wilson						
NAME (Pleasy forint or type)	DATE	/21/2005	NAME (Please print or type) CAPACITY OR TITLE Vice President	DATE	21/2005	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvpindex.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

USA March 2004 - frozen bean processing trial

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

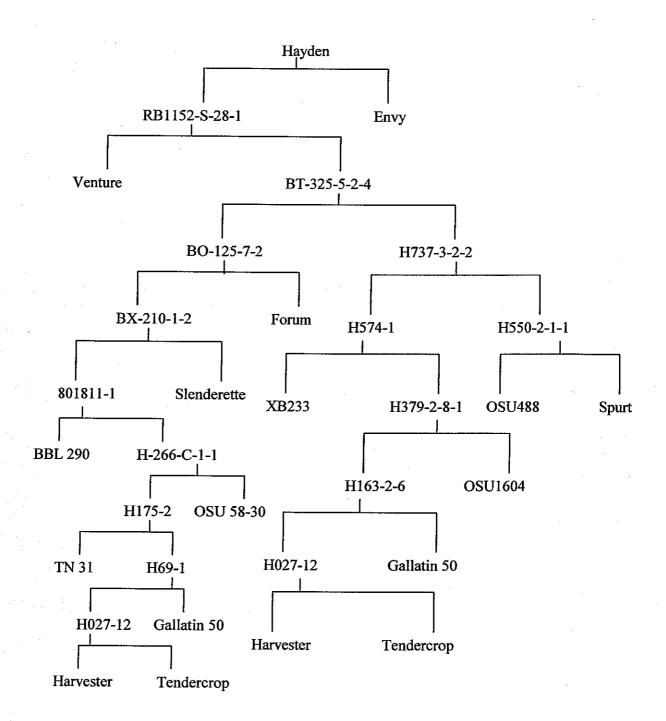
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

2

Exhibit A
Origin and Breeding History
'Hayden'



'Hayden' originated from a hand pollinated cross between Syngenta Seeds, Inc. breeding line RB1152-S-28-1 and Ferry Morse line Envy. Venture, BT-325-5-2-4, BO-125-7-2, H737-3-2-2, BX-210-1-2, H574-1, H550-2-1-1, 801811-1, H379-2-8-1, BBL 290, H-266-C-1-1, H 163-2-6, H175-2, TN 31, H69-1, H027-12, Gallatin 50, are Syngenta Seeds, Inc. breeding lines. OSU488, OSU1604, OSU58-30 are breeding lines from Oregon State University. Spurt and Harvester are commercial varieties and XB233 is a experimental variety from Seminis Seed Company. Slenderette variety is from Charter Seed Company. Tendercrop is a USDA variety.

Mass selection breeding method was followed during F2 and F3 to accumulate the traits of heat tolerance and yield. Selection by pedigree method for the traits of maturity, 5 sieve diameter and medium green color was applied in F4 and F5. The F6 generation was bulk harvested to supply a seed source for further increases. 'Hayden' has been uniform and genetically stable for four generations of increases from the original F6. No variants were observed.

Exhibit B Statement of Distinctness 'Hayden'

'Hayden' is a bush snap bean suitable for processing markets that most closely resembles the variety 'BBL 156'. 'Hayden' differs statistically from 'BBL 156' in the following traits.

- 1. 'Hayden' and 'BBL 156' are significantly different in spur length. In Nampa, Idaho, 'BBL 156' was 1 mm greater in spur length than 'Hayden' and 2 mm greater in spur length in Stanton, Minnesota. See Attachment B-1 a, thru f.
- 2. There was a significant difference in four-sieve pod length. 'BBL 156' pod length was 1 cm longer than 'Hayden' in Nampa, Idaho, and 2.9 cm longer in Stanton, Minnesota. See Attachment B-2 a, thru f.

All reported values for spur length and four-sieve pod length are based on average measurements.

Spur length data was collected from pods harvested in 2004 from each variety of 100 plant plots in Nampa, Idaho and Stanton, Minnesota.

Data for five-sieve pod length was collected from pods harvested in 2004 from each variety of 100 plant plots in Nampa, Idaho and Stanton, Minnesota. Random samples from a five-sieve lot were measured for pod length.

Exhibit B Statement of Distinctness 'Hayden'

Explanation of statistical analysis variables used in the following attachments

SL156ID = Spur Length (mm), BBL 156, Idaho SLSBID = Spur Length (mm), Hayden, Idaho SL156MN = Spur Length (mm), BBL 156, Minnesota SLSBMN = Spur Length (mm), Hayden, Minnesota

SV4PL156ID = Four-Sieve Pod Length (cm), BBL 156, Idaho SV4PLSBID = Four-Sieve Pod Length (cm), Hayden, Idaho SV4PL156MN= Four-Sieve Pod Length (cm), BBL 156, Minnesota SV4PLSBMN = Four-Sieve Pod Length (cm), Hayden, Minnesota

3/29/2005, 3:44:06 PM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
SL156ID	20	7.1000	1.0712	5.0000	9.0000
SLSBID	20	6.1500	0.8127	5,0000	7.0000

Attachment B-1a Spur Length (mm) Descriptive Statistics 'BBL 156' vs. 'Hayden' Nampa, Idaho 2004

3/29/2005, 3:42:36 PM

One-Way AOV for: SL156ID SLSBID

Source DF SS Between 1 9.0250 9.02500 9.98 0.0031 Within 38 34.3500 0.90395 Total 39 43.3750

Grand Mean 6.6250 CV 14.35

Chi-Sq DF P
Bartlett's Test of Equal Variances 1.39 1 0.2378
Cochran's Q 0.6346
Largest Var / Smallest Var 1.7371

Component of variance for between groups 0.40605 Effective cell size 20.0

Variable Mean
SL156ID 7.1000
SLSBID 6.1500
Observations per Mean 20
Standard Error of a Mean 0.2126
Std Error (Diff of 2 Means) 0.3007

8

Attachment B-1b Spur Length (mm) AOV 'BBL 156' vs. 'Hayden' Nampa, Idaho 2004

3/29/2005, 3:41:19 PM

LSD All-Pairwise Comparisons Test

Variable	Mean	Homogeneous	Groups
SL156ID	7.1000	A	
SLSBID	6.1500	В	

Alpha 0.05 Standard Error for Comparison 0.3007 Critical T Value 2.024 Critical Value for Comparison 0.6086 All 2 means are significantly different from one another.

Attachment B-1c Spur Length (mm) Comparison of Means 'BBL 156' vs. 'Hayden' Nampa, Idaho 2004

3/29/2005, 3:32:50 PM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
SL156MN	20	13.100	2.8636	9.0000	18.000
SLSBMN	. 20	11.150	2.3458	8.0000	17.000

10

Attachment B-1d Spur Length (mm) Descriptive Statistics 'BBL 156' vs. 'Hayden' Stanton, Minnesota 2004

3/29/2005, 3:34:37 PM

One-Way AOV for: SL156MN SLSBMN

Source DF SS MS 5.55 Between 1 38.025 38.0250 0.0237 38 Within 260.350 6.8513 Total 39 298.375

Grand Mean 12.125 CV 21.59

Chi-Sq DF P
Bartlett's Test of Equal Variances 0.73 1 0.3924
Cochran's Q 0.5984
Largest Var / Smallest Var 1.4902

Component of variance for between groups 1.55868 Effective cell size 20.0

Variable Mean
SL156MN 13.100
SLSBMN 11.150
Observations per Mean 20
Standard Error of a Mean 0.5853
Std Error (Diff of 2 Means) 0.8277

Attachment B-1e Spur Length (mm) AOV 'BBL 156' vs. 'Hayden' Stanton, Minnesota 2004

3/29/2005, 3:30:35 PM

LSD All-Pairwise Comparisons Test

Variable	Mean	Homogeneous	Groups
SL156MN	13.100	A	_
SLSBMN	11.150	В	

Alpha 0.05 Standard Error for Comparison 0.8277 Critical T Value 2.024 Critical Value for Comparison 1.6756 All 2 means are significantly different from one another.

Attachment B-1f Spur Length (mm) Comparison of Means 'BBL 156' vs. 'Hayden' Stanton, Minnesota 2004

12

3/30/2005, 10:19:05 AM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
SV4PL156ID	20	13.900	0.7881	13.000	15.000
SV4PLSBID	20	12.900	1.2096	11.000	15.000

Attachment B-2a
Four-Sieve Pod Length (cm)
Descriptive Statistics
'BBL 156' vs. 'Hayden'
Nampa, Idaho
2004

3/30/2005, 10:17:38 AM

One-Way AOV for: SV4PL156ID SV4PLSBID

Source	DF	SS	MS	F	P
Between	1	10.0000	10.0000	9.60	0.0037
Within	38	39.6000	1.0421		
Total	39	49.6000			

Grand Mean 13,400 CV 7.62

Chi-Sq DF P
Bartlett's Test of Equal Variances 3.30 1 0.0693
Cochran's Q 0.7020
Largest Var / Smallest Var 2.3559

Component of variance for between groups 0.44789 Effective cell size 20.0

Variable Mean
SV4PL156ID 13.900
SV4PLSBID 12.900
Observations per Mean 20
Standard Error of a Mean 0.2283
Std Error (Diff of 2 Means) 0.3228

Attachment B-2b Four-Sieve Pod Length (cm) AOV 'BBL 156' vs. 'Hayden' Nampa, Idaho 2004

3/30/2005, 10:15:51 AM

LSD All-Pairwise Comparisons Test

Variable Mean Homogeneous Groups SV4PL156ID 13.900 A SV4PLSBID 12.900 B

Alpha 0.05 Standard Error for Comparison 0.3228 Critical T Value 2.024 Critical Value for Comparison 0.6535 All 2 means are significantly different from one another.

Attachment B-2c Four-Sieve Pod Length (cm) Comparison of Means 'BBL 156' vs. 'Hayden' Nampa, Idaho 2004

3/30/2005, 10:21:28 AM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
SV4PL156MN	20	14.600	0.8208	13.000	16.000
SV4PLSBMN	20	11.750	1.0699	10.000	14.000

Attachment B-2d
Four-Sieve Pod Length (cm)
Descriptive Statistics
'BBL 156' vs. 'Hayden'
Stanton, Minnesota
2004

3/30/2005, 10:23:11 AM

One-Way AOV for: SV4PL156MN SV4PLSBMN

Source	DF	ss	MS	F	P
Between	1	81.225	81.2250	89.3	0.0000
Within	38	34.550	0.9092		
Total	39	115.775			

Grand Mean 13.175 CV 7.24

Chi-Sq DF P
Bartlett's Test of Equal Variances 1.29 1 0.2568
Cochran's Q 0.6295
Largest Var / Smallest Var 1.6992

Component of variance for between groups 4.01579 Effective cell size 20.0

Variable Mean
SV4PL156MN 14.600
SV4PLSBMN 11.750
Observations per Mean 20
Standard Error of a Mean 0.2132
Std Error (Diff of 2 Means) 0.3015

Attachment B-2e
Four-Sieve Pod Length (cm)
AOV
'BBL 156' vs. 'Hayden'
Stanton, Minnesota
2004

3/30/2005, 10:25:51 AM

LSD All-Pairwise Comparisons Test

Variable Mean Homogeneous Groups SV4PL156MN 14.600 A SV4PLSBMN 11.750 B

Alpha 0.05 Standard Error for Comparison 0.3015 Critical T Value 2.024 Critical Value for Comparison 0.6104 All 2 means are significantly different from one another.

Attachment B-2f
Four-Sieve Pod Length (cm)
Comparison of Means
'BBL 156' vs. 'Hayden'
Stanton, Minnesota
2004

REPRODUCE LOCALLY, include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3 hours per response, including the time for reviewing instructions, searching existing date sources, gethering and resintaining the date needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, mailtay or family status, the U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, mailtay or family status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information.

To Bie a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 325-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or cell 202-720-5964 (voice and TDO). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY

G	Sarden Bean (<i>Phaseolus</i>	vulyaris L.	
NAME OF APPLICANT(S)	TEMPORARY OR EXPERIMENTAL DESIGNA		ry name
Syngenta Seeds, Inc		Hayo	the second supplication of the second se
ADDRESS (Street and Na. or RD Na., City, State, Zip Code, and Country)		,	Time Con
600 N. Armstrong Place		PVPOI	omber onnenann 53
Boise, ID 83704			200600053
PLEASE READ ALL INSTRUCTIONS CAREFULLY		s helow. Place a zero in	the first box (e.g., 0 9 9 or 0 9)
Place the appropriate number that describes the varie when number is either 99 or less or 9 or less respective	uply Thata for meantitative plant charac	16tz zuonio de basen ou	a transmission of the branch
data should be determined from varieties centered in	the same trial. Measured data should	be for SPACEU PLAIN IS	1. Manges should dise as a
Horticultural Society or any recognized color standard	I may be used to determine plant color	s; designate system used	·
Please answer all questions for your variety; lack of re	esponse may delay progress of your al	phicadori.	
1. TYPE:			
1 t = Garden 2 = Flageolet 3 =	= Romano		
2. MARKET MATURITY:			
5 2 Days to Edible Pods		Comparison Varieties	
XXXXXX Heat Units to Edible Pods	- `` `	1 = Tender crop 3 = Gold rush	2 = Kentucky Wonder 4 = Sienderette
0 2 Number of Days Earlier Than	4	5 = Gitana 7 = Bush Blue Lake 290	6 ≈ Provider
Same As	Comparison Variety	8 = Other (Specify Below	RRI 156
Number of Days Later Than	J-T WOI ME'C' I WE'L		
3. PLANT:	Comparison Varie	-11 2 5.	
0 6 cm Spacing Between Plants in a Row	•		
1 Habit 1 = Determinate	of Others and Omnobes		
Attion of the companies	ect Stem and Branches I Weak and Prostrate Stem and Branch Inbing Habit with Weak, Long, and Twis	les tod Stom and Branches	
	noing Habit with vyeak, cory, and resa	ped Citori Cina	
48 cm Height			
0 3 cm Shorter Than			
Cattle leight warman	rparison Variety	Use Compan	ison Varieties from Section 2
0 4 cm Taller Than	•		

3. PLAN	NT: (continued)			20060005
3 4	cm Spread	> 1 + + 1	han conferison varietis	ಲ್
XXX	-3 CITTORIONO 1-1-1-1	1- Not Mariower		
	Same Width As	Comparison Variety	<u>Use Comparison Varietie</u>	S ROIN DECKAR! S
0 5	cm Wider Than	1)		
3	Pod Position: 1 = Low 2	2 = High 3 = Scattered		
3	Bush Form (Illustrated Below)	×	a KA	
				A = High Bush Form
	1 = Spherical Bush Form	2 = Stem Bush Form	3 = Wide Bush Form	4 = mign bush Fush
	5 = Other (Specify)			
	Let C.			
4. LEA		2 = Glossy 3 = Indeterminate		
3	A STATE OF THE STA		(Tender Crop)	
2		n (as Light or Lighter than Gold Rush)		
[]	0 - handle- C	reen n (as Dark or Darker than Bush Blue Lak	se 290)	
5. ANT	Flowers Leaves	(1 = Absent 2 = Present) Stems 1 Pods Petioles Peduncie	Seeds 1 Nodes	
6 FLC	OWER COLOR AND DAYS TO E	BLOOM:	`	
2	Color of Standard	Flower Color Choic 1 = White 2 = Cr		
Ī	Color of Wings	3 = Pink 4 = Lil 5 = Purple 6 = Bl	ac ·	
2	Color of Keel	7 = Other (Specify)		
3	4 Days to 50% Bloom			
7. PO	DS (Edible Maturity):			
2	Exterior Color: (Fresh)	1 = Light Green (as Light or Lighter the 2 = Medium Green 3 = Dark Green (as Dark or Darker tha 4 = Yellow (Gold Rush)	n Bush Blue Lake 290)	
		5 = Green-red Variegated (Horticultura 6 = Other (Specify)	·/	_
2	Processed Pods (Exterior Co	olor): 1 = Light (Tender Crop)	2 = Dark (Bush Blue Lake 290)	
1	Ory Pod Color:	1 = Buckskin (Sprite)	2 = Green, Persistent Chlorophyll (Hystyle)	
				2.*
50		- W 1 - 2000		Page 2 of 5

							
PODS (continued): 3 Cross Section Pod (Middle of the Po		2 = Heart (Pear)	3 = Round 4 = F	igure Eight () ()	600	053	
5 Number of Seeds 2 Suture String: 2 Seed Developmen 1 Machine Harvest;	1 = None (Slenderette) ocular Cavitation): 1 = igth e (Bush Blue Lake 290) per Pod 1 = Present 2 = it: 1 = Slow (Bush Blue Lake 1 = Adapted 2 =	None 2 = Slight 3 = Deep 2 = Sparse Absent Re 290) 2 = Mediu Not Adapted	3 = Considerable (Provide 3 = Considerable (Sprite) m 3 = Fast (Provi				
ercent sieve size distributio	5.76 to 7.34mm	7.34 to 8.34mm	8.34 to 9.53mm	9.53 to10.7	2 mm	>10.72mm	
3 %	3 %	2 %	15 %	44	%	33	%
3 Sieve 4 Sieve 5 Sieve 6 Sieve	cm Length cm Length cm Length cm Length cm Length	0 9 0 9 1 0 _m	mm width mm width mm width mm width	0 8 To	tal mm Thick tal mm Thick tal mm Thick tal mm Thick	ness iness	
SEED COLOR: 3 Seed Coat Luster: 1 Seed Coat: 0 1 Primary Color: XXX Secondary Color	1 = White 2 = Yelk 9 = Blue 10 = Bla or: 1 = White 2 = Yelk	Polychrome 3 = Buff ck 11 = Other 3 = Buff	4 = Tan 5 = Brow 4 = Tan 5 = Brow		7 = Red 7 = Red	8 = Purple 8 = Purple	
Seed Coat Pattern Hilar Ring: Hilar Ring Colo	1 = Solid 1 = Spla 1 = Absent 2 = Pres r: 1 = White 2 = Yell	shed 3 = Mottled cent ow 3 = Buff	4 = Striped 5 = Fleck 4 = Tan 5 = Brow		7 = Red	8 = Purpie	
SEED SHAPE AND SIZ	9 = Blue 10 = Bla E: 1 = Elliptical	11 = Other	ral	3 = Round			
2 Cross Section:	1 = Elliptical 2 =	Oval 3 = Cordate	4 = Round				

9.	SEED	SHAPE AND SIZE: (continued)			
1	3	Side View:			
		The second secon			00600053
		1 = Oval to Oblong	2 = Round	3 = Reniform	
:	2 8 0 1 0 8	gm/100 Seeds gm/100 Seeds Lighter Than gm/100 Seeds Same As gm/100 Seeds Heavier Than	Comparison Variety		
10	, DISE	ASE RESISTANCE: 0 = Not Tested 1 = Suscept	ible 2 = Resistant 3 = t	ntermediate 4 = Tolerant	
	0	Anthracrose (Colletotrichum lindemuthianum) Race Aipha Race Delta	Race Beta Race Epsilon Specify Race	Race Gamma Race Lambda	
	0	Race Kappa	Specify Nave		
	פו	Bean Rust (Uromyces appendiculatus) Race 38 Race 45 Race 51	Race 39 Race 46 Race 52	Race 40 Race 49 Race 54	Race 44 Race 50 Race 56
		Race 59	Specify Race		
	0	Powdery Mildew (Ersiphe polygoni)			
	의	Fusarium Root Rot (Fusarium solani f. sp. phase	qli)		
	000	Pythium Root Rot (Pythium spp.)	-•		
		Aphanomyces Root Rot (Aphanomyces autaiche	5)		
	읨	Rhizoctonia Root Rot (Rhizoctonia solani)	m)		
	00	Pythium Blight or Aereal Pytium (Pythium ultimut	76)		
	0	Angular Leaf Spot (Isariopsis griseola) Bacterial Wilt (Corynebacterium flaccumfaciens s	suben flaccumfacians)		
	0	Bacterial Brown Spot (Pseudomones syringae p		•	
	0	Bacterial Bight (Xanthomonas campes		•	
	0	Halo Blight (Pseudomonas syringae pv. phaselio		•	
		Race 1	Race 2		
	D	Clover Yellow Vein Virus (CYVV)			
	0	Bean Common Mosaic Virus (BCMV)			
	لت	BV1	NY15	NL2	NL3
		NL4	NL8	Florida	Idaho
		Mexican I gene	Western	Туре	
		Yellow Bean Mosaic Virus (BYMV)			
	0	Yellow Bean Mosaic Virus (81MV) Curly Top Virus (BCTV)			
	0	Other (Specify Disease and Race or Strain		·	
		(-F)			

Exhibit C (Garden Bean)

													
11. INSI	Aphid Leathopper Lygus Pod Borer Other (Specify)	Not Tes	sted 1 = Susceptil	ble 2 = Ri	esistant 3 = Inter Root Knot Nem- Seed Com Mag Thrips Weevils	atode	2		6	A Second	Control of the Contro		
	SIQLOGICAL RESISTA	NCE: 0	D = Not Tested 1 Cold Ozané	= Suscepti	ible 2 = Resistan Drought	nt 3 = intermediate 4 :	• Tole	ant		-			

13. COMMENTS:

REPRODUCE LOCALLY. Include form number and edi	ition date on all reproductions.	ORM APPROVED - OMB No. 0581-0055					
'U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).						
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME					
Syngenta Seeds, Inc.	OR EXPERIMENTAL NUMBER	Hayden					
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)					
600 North Armstrong Place Boise, ID 83704	208-465-8522	208-467-4559					
·	7. PVPO NUMBER						
<u>· </u>	200600053						
8. Does the applicant own all rights to the variety? Mark an "X" in the							
9. Is the applicant (individual or company) a U.S. national or a U.S. t	pased company? If no, give name of co	ountry. YES NO					
10. Is the applicant the original owner?	NO If no, please answer one	of the following:					
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. National NO If no, give name of countr						
11. Additional explanation on ownership (Trace ownership from original Same as on original application. Garden Bean, Hayden, was bred and developed by plant breeders e Syngenta Seeds, all rights to any invention, discovery or development Syngenta Seeds, with no rights retained by the employee	mployed by Syngenta Seeds. By agreer	nent between the employee and					
PLEASE NOTE:							
Plant variety protection can only be afforded to the owners (not licens	anna) who want the fall with a first						
If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o	erson must be a U.S. national, national	of a UPOV member country, or					
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	ved the original breeder(s), the company	must be U.S. based, owned by					
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.					
The original breeder/owner may be the individual or company who did Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection					
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055, including the time for reviewing the instructions, searching existing data sources, gathering of The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and a status, familial status, parental status, religion, sexual orientation, genetic information, politic	The time required to complete this information collected maintaining the data needed, and completing and activities on the basis of race, color, national origin, agratabeliefs, reprisal, or because all or part of an individ	tion is estimated to average 0.1 hour per response, reviewing the collection of information. e, disability, and where applicable, sex, marital ual's income is derived from any public assistance					
program (Not all prohibited bases apply to all programs.) Persons with disabilities who require should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).	re alternative means for communication of program in	formation (Braille, large print, audiotape, etc.)					

To the a confilaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (PDD). USDA is an equal opportunity provider and employer.

ST-470E (02-06) designed by the Plant Variety Protection Office using Word 2003

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved OMB NO 0581-0058

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotepe, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F

		:	
NAME OF OWNER (S)		ountry)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Syngenta Seeds, Inc.	600 North Armstrong Place		
	Boise, ID 83704		VARIETY NAME
	USA		Hayden
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and C	Country)	FOR OFFICIAL USE ONLY
Kim Briggs	6338 Highway 20-26 Nampa, ID 83687		PVPO NUMBER
	(чатра, 1D 03007		200600053

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

Date